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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

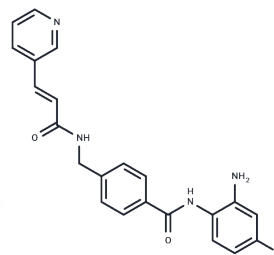
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Tucidinostat

Chemical Properties

CAS No. :	1616493-44-7
Formula:	C22H19FN4O2
Molecular Weight:	390.41
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tucidinostat (Chidamide) is an effective and orally bioavailable HDAC enzymes class I (HDAC1/2/3) and class IIb (HDAC10) inhibitor, with IC50s of 95, 160, 67 and 78 nM, less active on HDAC8/11 (IC50: 733/432 nM), and shows no effect on HDAC4/5/6/7/9.
Targets(IC50)	HDAC
In vitro	Tucidinostat shows potent antitumor activity and inhibits several human-derived tumour cell lines, such as HL-60, U2OS, LNCaP with GI50s of 0.4 ± 0.1 , 2.0 ± 0.6 , and 4.0 ± 1.2 μ M, respectively. In addition, Tucidinostat shows less toxic to normal cells from human fetal kidney (CCC-HEK) and liver (CCCHEL)[1].
In vivo	Tucidinostat, administered orally at doses ranging from 12.5 to 50 mg/kg, effectively and dose-dependently decreases tumor size and weight in mice afflicted with various carcinomas including HCT-8 colorectal, A549 lung, BEL-7402 liver, and MCF-7 breast, without any significant loss in body weight[1].

Solubility Information

Solubility	H2O: Insoluble, DMSO: 60 mg/mL (153.68 mM), Ethanol: 1 mg/mL, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5614 mL	12.807 mL	25.6141 mL
5 mM	0.5123 mL	2.5614 mL	5.1228 mL
10 mM	0.2561 mL	1.2807 mL	2.5614 mL
50 mM	0.0512 mL	0.2561 mL	0.5123 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zha J, Zhong M, Pan G, et al. Stratification and therapeutic potential of ELL in cytogenetic normal acute myeloid leukemia. *Gene*. 2022: 147110.
 Zhong M, et al. Preclinical Evaluation of the HDAC Inhibitor Chidamide in

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481